



Lustran® Elite 1827

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® Elite 1827 resin is an injection molding grade of ABS (acrylonitrile butadiene styrene) for high-heat applications in the automotive market. It provides high heat resistance, low gloss, toughness, and easy flow for processing molded-in color parts.

FEATURES

- SAE J1685: ABS0111
- High heat resistance
- Low gloss
- Easy flow
- UL 94 HB rated

APPLICATIONS

- AB pillars
- Door panels
- Console and console trim
- Lamp housings

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Flow • Good Toughness • High Heat Resistance • Low Gloss
Uses	• Automotive Applications • Automotive Interior Parts
Agency Ratings	• SAE J1685
Automotive Specifications	<ul style="list-style-type: none"> • CHRYSLER MS-DB-191 CPN3826 • CHRYSLER MS-DB-191 Type A CPN1497 Color: Black • CHRYSLER MS-DB-191 Type A CPN1734 Color: Color Match • CHRYSLER MS-DB-191 Type A CPN2993 Color: 90% Color Match • CHRYSLER MS-DB-191 Type A CPN3438 Color: Color As Noted On Drawing • DAIMLER DBL 5404.21 • FORD ESB-M4D300-A • FORD ESB-M4D483-A2 • FORD WSK-M4D827-A • FORD WSS-M4D827-B1 • FORD WSS-M4D827-C1 • GM GMP.ABS.003 • GM GMP.ABS.010 • GM GMW15572P-ABS-T2 • SAE J1685 ABS0131 • TOYOTA TSM 5512G-2A • VOLKSWAGEN TL 527 Type A
Forms	• Pellets
Processing Method	• Injection Molding

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ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate			ASTM D1238
220°C/10.0 kg	13	g/10 min	
230°C/3.8 kg	4.0	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	13	g/10 min	
230°C/3.8 kg	4.0	g/10 min	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)			ASTM D256
-40°F	3.66	ft-lb/in ²	
73°F	8.23	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	233	°F	ASTM D1525 ²
Vicat Softening Temperature	214	°F	ISO 306/B50
CLTE - Flow	4.6E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Mold Temperature	110 to 150	°F
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate B (120°C/h), Loading 1 (10 N)